

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

Claims 1 – 18 (cancelled)

Claim 19 (currently amended) A ~~The~~—method of reconstructing a mammalian embryo comprising the steps of:

reconstructing a first generation embryo by transferring a mononuclear cell or isolated nucleus from the blood or natural secretion of a mammal into an enucleated oocyte;

activating the oocyte to start the development program of the oocyte;

developing the reconstructed first generation embryo to a stage where it can be transferred to the uterus; and

~~the steps of a method according to claim 13 and further comprising transferring a cell or isolated nucleus from the said first generation embryo to an enucleated oocyte a suitable recipient to form a second generation embryo.~~

Claim 20 (currently amended) A ~~The~~—method of reconstructing a mammalian embryo comprising the steps of:

reconstructing a first generation fetus by development of a first generation embryo reconstructed by transferring a mononuclear cell or isolated nucleus from the blood or natural secretion of a mammal into an enucleated oocyte;

activating the oocyte to start the developmental program of the oocyte;

developing the reconstructed first generation embryo to the fetus stage in vivo;
and

~~a method of claim 13, preparing fetal fibroblast cultures therefrom and transferring a cell or isolated nucleus cells from said fetal fibroblast cultures to an enucleated oocyte a suitable recipient to form a second generation embryo.~~

Claim 21 (original) The method according to claim 20 further comprising the step of genetic modification of the cells of the fetal fibroblast cultures prior to second generation cloning.

Claims 22 – 25 (cancelled)

Claim 26 (new) The method according to claim 19 wherein the second generation embryo is developed to term.

Claim 27 (new) The method according to claim 20 wherein the second generation embryo is developed to term.

Claim 28 (new) The method according to claim 21 wherein the second generation embryo is developed to term.